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4239-62489 EXAM	7424 INER	
EXAM	INER	
CANELLA, KAREN A		
ART UNIT	PAPER NUMBER	
1642		

DATE MAILED: 03/21/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

					<i>Y</i>		
		Application No).	Applicant(s)			
Office Astine Comment		10/089,485	!	HANADA ET AL.			
	Office Action Summary	Examiner	-	Art Unit			
		Karen A. Canel	i i	1642			
Period fo	The MAILING DATE of this commun or Reply	ication appears on the cov	er sheet with the co	rrespondence add	dress		
THE - Exte after - If the - If NC - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN nsions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this comm e period for reply specified above is less than thirty (3) period for reply is specified above, the maximum st ure to reply within the set or extended period for reply reply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no event, hor nunication. i0) days, a reply within the statutory matutory period will apply and will expired will, by statute, cause the application	wever, may a reply be timel ninimum of thirty (30) days v e SIX (6) MONTHS from th to become ABANDONED	y filed will be considered timely e mailing date of this co (35 U.S.C. § 133).	mmunication.		
Status							
1)	Responsive to communication(s) file	ed on					
		_					
3)							
Disposit	ion of Claims						
5) 6) 7)	Claim(s) 1-41 is/are pending in the at 4a) Of the above claim(s) is/at Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-41 are subject to restriction	re withdrawn from conside					
Applicat	ion Papers						
10)□	The specification is objected to by the The drawing(s) filed on is/are Applicant may not request that any objected to the control of th	: a) ☐ accepted or b) ☐ ol ction to the drawing(s) be hel the correction is required if t	d in abeyance. See the drawing(s) is object	37 CFR 1.85(a). cted to. See 37 CF	` '		
		o by the Examiner. Note th	ie allached Office A	CCION OF TORM F 1	0-132.		
Priority	under 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim All b) Some * c) None of: 1. Certified copies of the priority 2. Certified copies of the priority 3. Copies of the certified copies application from the Internation See the attached detailed Office action	documents have been red documents have been red of the priority documents lonal Bureau (PCT Rule 17.	ceived. ceived in Application have been received .2(a)).	n No I in this National	Stage		
Attachmer		_	_				
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (F mation Disclosure Statement(s) (PTO-1449 or er No(s)/Mail Date	PTO-948)	Interview Summary (F Paper No(s)/Mail Date Notice of Informal Pat Other:	ə ·)-152)		

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DETAILED ACTION

1. Claims 1-41 are pending.

Election/Restrictions

2. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-32 and 37-41, drawn to a method of treating a subject having a neoplasm expressing FGF-5 comprising modulating an immune response to FGF-5 or modulating FGF-5 expression or activity, and a method of lysing a cell of an FGF-5 expressing neoplasm in a subject, comprising sufficiently enhancing an immune response against FGF-5.

Group 2, claim(s) 33-36, drawn to a method for detecting an enhanced susceptibility of a subject to a disease of abnormal FGF-5 expression, said method comprising detecting an increase in FGF-5 protein in the cell of a subject.

3. The inventions listed as Groups 1 and 2 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: the claims lack a special technical feature over the art because claims 33-36 are obvious over the prior art. Kornmann et al (Oncogene, 1997, Vol. 15, pp. 1417-1424, reference submitted March 27, 2002) teach that FGF-5 participates in autocrine and paracrine pathways that promote pancreatic cancer growth in vivo (abstract). Albino et al (Cancer Research, 1991, Vol. 51, pp. 4815-4820, reference submitted March 27, 2002) teach that FGF-5 mRNA expression can be used as a marker for malignant melanoma (abstract). Werner et al (Oncogene, 1991, Vol. 6, pp. 2137-2144, reference submitted March 27, 2002) teach that the expression of FGF-5 amplifies and prolongs the induction of stimulation by serum and growth factors and that a deregulated or permanent expression of FGF-5 may lead to the neoplastic transformation of cells (page 2142, second column, second full paragraph). Thus

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it would be obvious to one of skill in the art at the time the invention was made to use the expression of FGF-5 to detect an enhanced susceptibility to pancreatic cancer or to melanoma. One of skill in the art would have been motivated to do so because the teachings of Kornmann et al and Albino et al verify that FGF-5 is expressed in the malignant pancreas and melanoma, and the teachings of Werner et al suggest that the deregulated or permanent expression of FGF-5 leads to the neoplastic state.

4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Canella whose telephone number is (571)272-0828. The examiner can normally be reached on 10 a.m. to 9 p.m. M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on (571)272-0787. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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3/17/2005

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